SKILL 9
SKILLS FOR LIFE

Software

Testing

"Become a Software Tester"
In Just 3 Months

Transform your future with our education

SKILL9 Universal Academy
SS Prime, AGB Layout,
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Why take this course?

- **Designed for Graduates/Under Graduates or job seekers and professionals who wants to enhance their technical knowledge**
- **Studying/Studied GRADUATION**
- **Any Graduate/engineer who is interested in Coding Freshers/Graduates**
- **Non-programming engineers**

In addition Course helps you

- **Improve your logical thinking: Improve your problem-solving abilities**
- **Improve your searching skills: Understand how software applications work**
- **Find a nice and well-paid job; Improve your self-confidence**
- **100% JOB ASSISTANCE after completion of course to make your Profile reach to Hundreds of Recruiters in our network and with the company we have tie up**

Features

- **Real-Time Projects**
- **Hand's On Experience**
- **Mock Tests and Mock Interviews**
- **Daily Assignments and Seminars**

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Manual Testing

Software Development Life Cycle

- Waterfall Model
- Spiral Model
- Prototype Model
- V & V Model
- Hybrid Model

Black Box Testing

- Functionality Testing/Component Testing
- Integration Testing
- System Testing
  - Build
  - Release
  - Patch
  - Test Cycle
  - Continues Integration
  - Incident Management
  - Software Architecture and Testing
  - Web Application
  - Client Server Application
  - Stand Alone Application

White Box Testing

- Path Testing
- Loop Testing
- Condition Testing
- White box Testing from Memory Point of View
- White box Testing from Performance Point of View
- Unit Testing

Smoke Testing/Sanity Testing/Dry Run

- Adhoc Testing
- Exploratory Testing
- Compatibility Testing
- Performance Testing
  - Load Testing
  - Stress Testing
  - Volume Testing
  - Soak Testing
- Reliability Testing
- Usability Testing
- Accessibility Testing
- Globalization Testing
  - Internationalization testing
    - Localization testing

Manual Testing

Acceptance Testing

- Alpha Testing
- Beta Testing

TEST CASE

- Introduction to Test Case
- Test Case Design Techniques
  - Specification Based
  - Experienced Based
- Test Case Format
- Functional Test Case
- Integration Test Case
- System Test Case
- Procedure to Write and Execute Test Case
- Test case Review Process

Test Plan

- Sections of Test Plan
- Test Metrices

Software Test Life Cycle

- Traceability Matrix
- Test Execution Reports

Test Management Tool

- QC
- ALM
- Jira

Defect Tracking

- Introduction to Defects
- Defect Life Cycle
- Status of Defects
- Severity of a defect
- Priority of a defect
- Defect Report/Incident Report
- Defect Tracking Tool:
  - JIRA
  - MANTIS
  - QC

Core Java

Section 1

- **Introduction to programming**
- Introduction to java
- JDK installation
- Keywords, Identifiers, variables
- Operators, Method/Functions
- Flow Control Statements
- Arrays, Strings
- Interactive programs in java using Scanner

Section 3

- Java Built-in packages and API
- Overview of java API
- Object class
- String, String Buffer and String Builder
- Exception Handling
- Threads and multithreading
- Wrapper Classes
- Data Structures
- JAVA COLLECTION FRAMEWORKS***
- File Handling, Serialization
- Encapsulation

Section 2

- **Object Oriented Programming System**
- Classes and Objects
- Object creation
- Reference variable
- Global and local variables
- Constructors
- Aggregation
- Composition
- Inheritance ***
- Method Overloading
- Method Overriding
- Abstract classes
- Interfaces
- Typecasting
- JVM architecture
- Polymorphism
- Abstraction
- Java packages
- Access Specifies

Automation Testing

Automation Testing

- What is Automation Testing?
- When we Switch to Automation Testing?
- Why Automation testing?/Advantages
- Disadvantages
- Automation Testing Tools

Xpath, its Types and cases

- Handling Multiple Elements
- Handling Synchronisation issue by using implicitlyWait and Explicitly Wait
- Handling Dropdown (static and dynamic)
- Handling Keyboard and Mouse Actions
- Handling Disabled Element
- Performing Scroll down Action
- WebElement Interface Methods
- Handling Popups, Frames
- Handling New Windows/New Tabs

Selenium

- What is Selenium
- Why Selenium? / Advantages
- What are its versions?
- What all OS, Browsers, and Programming Languages it Support?
- Java-Selenium Architecture
- WebDriver Architecture
- Basic Selenium Program to Open and close Browser
- Runtime Polymorphism Program in Selenium
- WebDriver abstract methods
- Locators

AUTOMATION FRAMEWORK

- Stages and Types of Framework
- Explanation of Hybrid Framework with a combination of
- Data-Driven
- Keyword-Driven
- Method-Driven
  - POM (Page Object Model)

Automation Testing

TestNG

- Fetching TestNG Report
- Batch Execution
- TestNG Flags and Annotations
- Assertion
- Grouping Execution
- Data Parameterisation
- Data driven through DataProvider
- Parallel Execution
- Distributed Parallel Execution
- Cross Browser Parallel Execution

Modular Frameworks

Hybrid Framework

- Hybrid Framework Architecture
- Introduction to Maven, GitHub and Jenkins

Agile Methodology

- Agile Scrum
- Agile Kanban
- Agile Xtreme Programming

Database

Introduction

- What Is Database?
- What is Database Management System (DBMS)?
- What is Relational Model ?
- Introduction to RDBMS .
- Brief on E.F CODD .

Datatypes and Constraints

- What are Datatypes ?
- Types and Examples .
- How to use .
- What are Constraints?
- Types and Examples.
- How to use.

Statements in SQL

- Data Definition Language (DDL)
- Data Manipulation Language (DML)
- Transaction Control Language (TCL)
- Data Control Language (DCL)
- Data Query Language (DQL)

Software installation

- Installing and set up of software
- Working on Oracle 10g.

Operators

- Types and Examples

Data Query Language (DQL)

- Select
- From
- Having
- Where
- Group By
- Order By

Functions in SQL

- Single Row Functions
- Multi Row Functions
  - Max ()
  - Min ()
  - Count ()
  - Sum ()
  - Avg ()

Sub Query

- Introduction to Sub Query
- Working of Sub Query
- Query Writing and Execution
- Types of Sub Query
  - Single Row Sub Query
  - Multi Row Sub Query
- Nested Sub Query.

JOINS

- What Is Join?
- Types of Joins.
- Cartesian Join
- Inner Join
- Outer Join
- Self-Join
- Queries and Examples.

Data Manipulation Language (DML)

- Insert
- Update
- Delete

Pseudo Columns

- Introduction on Pseudo Columns
- ROWID
- ROWNUM
- Working and Usage

Co- Related Sub Query

- Working and Examples

Data Definition Language (DDL)

- Create
- Rename
- Alter
- Truncate
- Drop

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Transaction Control Language (TCL)

- Commit
- Save point
- Rollback

Data Control Language (DCL)

- Grant
- Revoke

Normalization

- Introduction to Normalization
- Types of Normal Forms
- Examples.

E R Diagrams

- Introduction to ERD
- Examples.